

**METHODS AND APPARATUS FOR SCHEDULING, SERVING,
RECEIVING MEDIA-ON-DEMAND FOR CLIENTS, SERVERS
ARRANGED ACCORDING TO CONSTRAINTS ON RESOURCES**

ABSTRACT OF THE DISCLOSURE

5 A media object is scheduled for transmission between a server and a client.
The media object is partitioned into segments of blocks, wherein each block is a unit of
media for which a client will wait to receive an entire block before playing out the block, and
wherein each segment includes an integer number of blocks. One or more channels on which
to serve each segment are determined, and a rate at which to serve each segment is
10 determined. Additionally, a schedule pair for each channel is determined. The schedule pair
includes a time at which the client may start receiving on the channel and a time at which the
client may stop receiving on the channel.

SF 1181634 v1